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A Selected Bibliography of Insect-Vascular Plant Associational Studies

Compiled by
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and Joyce A. Utmar¹/

Introduction

Despite the tremendous losses caused by phytophagous insects and the vital economic importance of insect-plant relationships to agricultural sciences, no comprehensive compilation of references to studies of insect associates on vascular plants was available prior to 1962, when a mimeographed list (Mimeo F-4, Section of Faunistic Surveys and Insect Identification, Illinois Natural History Survey, Urbana) appeared, with M. W. Sanderson and J. M. Kingsolver as authors. This list, somewhat expanded, was published by the Agricultural Research Service, U.S. Department of Agriculture, as ARS 33-115 (Kingsolver and Sanderson, 1967).

Research during 1960-80 on biological control of undesirable plants has led to a marked increase in publications on insect-plant relationships in many parts of the world. The present listing includes nearly four times as many references as in the 1967 publication; however, we realize that our search for pertinent references is by no means complete, and that we only broach the literature for many plant families. Our search essentially covers literature through 1979, although a few pertinent titles appearing in 1980 are included. All references in

¹/Insect Identification and Beneficial Insect Introduction Institute, Beltsville Agricultural Research Center, Beltsville, Md. 20705.

We thank all those persons who have suggested or contributed references to this publication, especially J. R. Coulson, T. Henry, D. Miller, D. A. Nickle, B. Peterson, L. M. Russell, T. J. Spilman, G. Steyskal, and M. B. Stoetzel, all of this Institute.

Kingsolver and Sanderson (1967) are incorporated here.

The present compilation is limited to vascular plants, including the pteridophytes. As many original papers as possible were examined to check the accuracy of the citation and to determine the content suitability. Many references were extracted from the Annual Review of Entomology, Review of Applied Entomology, Entomology Abstracts, Biological Abstracts, other bibliographies, and U.S. Department of Agriculture card files. References to vertebrate and noninsect assemblages were omitted. Titles from outside the United States and Canada are included if they are particularly comprehensive or if they fill a gap in the knowledge of the insects associated with a family of plants. It is impossible to include every such reference, but many papers useful to those working with phytophagous and pollinating insects are included.

A number of titles are incomplete for one reason or another. Rather than omit what might become a critical reference, we have included the part that is available and have followed it with "(incomplete)."

In scrutinizing the literature, we were constantly confronted with inconsistencies in the methods of reporting host data and uncertainties in reporting the degree of association of the insect with its host plant. We suggest that the ideal report should state as fully as possible the relationships of each insect species in all its stages with each stage of the plant species; however, not many publications approached this ideal. It should also recognize that insect associations range from those of simply a resting site to those in which the insect is an obligatory associate of a single plant species. Many so-called host records signify only that the insect was collected on the plant and may or may not indicate an actual breeding association. However, indefinite records of this nature should not be hastily discarded until the status of the association can be ascertained, because they may offer the only clues to the true relationship between the organisms.

The importance of accurate identification of plant taxa is obvious when it is recognized that generalizations concerning insect-host relationships should be based on precise identification. Generic identifications of plants often are insufficient. Likewise, the entomological investigator should work with the smallest taxonomic unit possible.

We strongly suggest that for the convenience of cataloging, specific Latin names be included in titles of papers.

Associations, if they are to have validity in the future, may require that documented inflorescence-bearing plant samples with associated insects be permanently preserved for future reference, should taxonomic refinements or misidentifications suggest restudy.

Plant family names are those proposed in "Appendix II, Nomina Familiarum Conservanda, pp. 238-257, in Stafleu, F. A. (et al.), eds., International Code of Botanical Nomenclature. Bohn, Scheltema, and Holkema, Utrecht." We have, however, retained more traditional names for certain families. Alternative names are given in the index.

Several other basic botanical references that we found useful include--

- American Joint Committee on Horticultural Nomenclature. 1942. Standardized plant names. Ed. 2, prepared by Kelsey, H. P., and W. A. Dayton, eds. 675 pp. J. Horace McFarland Co., Harrisburg, Pa.
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- Gleason, H. A. 1952. The new Britton and Brown illustrated flora of the Northeastern United States and adjacent Canada. 3 v. N.Y. Bot. Gard.

- Hitchcock, A. S. 1951. Manual of grasses of the United States. Ed. 2, rev. by Agnes Chase. U.S. Dep. Agric. Misc. Publ. 200, 1051 pp.
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This bibliography comprises five sections, each with a specific purpose. Section I is the main body of references to insect assemblages with a plant species or genus, arranged in alphabetical order by plant family and by plant genus. We have attempted to limit our coverage in this section to several categories: (1) References to reports of associations from a single locality, (2) reports that cover the entire range of the plant, (3) native plants in or out of cultivation, (4) uncultivated introduced plants that attract our native insects, and (5) some introduced plants in cultivation. A paper restricted to a single order of insects was included if it was the only reference to associations of insects with the plant species. References were omitted that treated only injurious insects of specific introduced plants unless they were the only treatments available for the particular plants.

Other references were omitted that primarily concerned identification and control of insects associated with specific cultivated plants. Whenever we were in doubt regarding the applicability of some references, we included them.

Section II is devoted to the principal works of Charles Robertson. Both botanist and entomologist, he wrote prolifically between 1886 and 1933 on the interrelations of insects and flowers. His "Flowers and Insects" (1929), arranged in alphabetical order by plant families, summarized his personal observations between 1899 and 1929; his principal earlier references were included. Since Section I would have been unduly enlarged had we included the Robertson references under each plant family, we decided to give these references a special category. Many other references of Robertson not included here treat phenology, evolution of entomophilous flowers, and anthecology. They can be found in such journals as Ecology, Scientific Monthly, Psyche, and American Naturalist.

Section III contains a list of general references on phytophagous insects. Some individual reports contain many sections treating specific plant-insect associations, such as the work by Packard (1890) on shade tree insects, Craighead (1950) on eastern forests, and the companion work by Keen (1958) on western forests. Others are valuable sources of more general associational data involving such plant associates as prairies (Hendrickson 1930, 1931; Vestal 1913), hammocks (Dozier 1920), and swamps. The works of Brues (1946) and Frost (1942) are basic in that they include general treatments of phytophagous insects as well as extensive bibliographies. This section is by no means exhaustive in its coverage.

Section IV includes principal references to the phytophagous food habits of several insect orders. Peterson's excellent manuals of insect larval forms (1948, 1951--cited in Section III) include extensive food-plant lists of the insect orders treated. The list of references in Section IV is by no means complete, but it will give the worker a basis for

further bibliographical searching, especially at the insect-family level. We have purposely omitted many available references in the taxonomic literature to the food habits of families, subfamilies, or genera of insects, because this is in the domain of the specialist in each insect order. Special sections in volumes of the Zoological Record list titles in these fields.

Section V includes titles that reflect recent major advances in our understanding of the fundamental physical and chemical factors that determine host plant selection and the survival of the phytophagous insects and their hosts.

Abbreviations, with some minor modifications, are those used by the BioSciences Information Service publications, Philadelphia, Pa.

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**Section IV—Phytophagous Food Habits of
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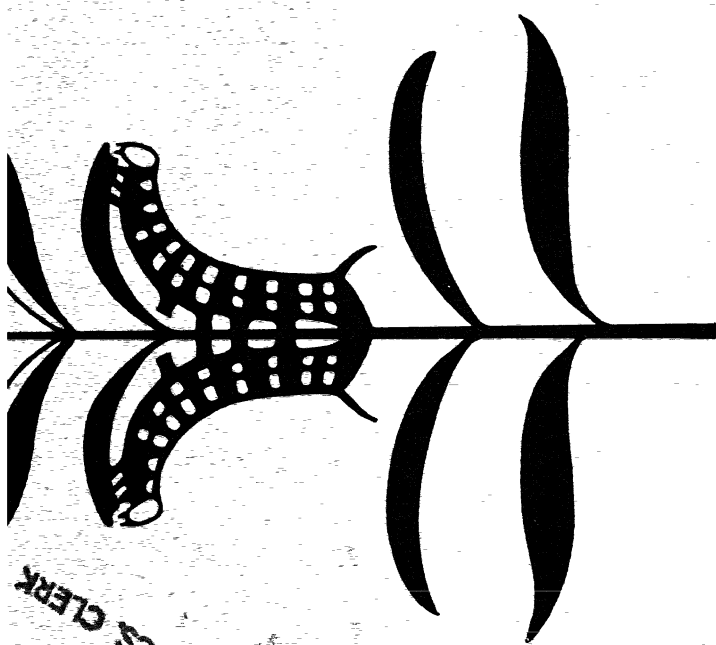
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